

Appln No. 10/790,993

Amdt date March 24, 2005

Reply to Office action of February 8, 2005

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Canceled)

2. (Currently Amended) A radar comprising:

a mixer that mixes a transmitted signal and a received signal;

an A/D converter that analog-to-digital converts an output signal of said mixer to an output data;

a processing unit that removes a dc voltage component by subtracting a predetermined voltage value from output data of said A/D converter, and Fourier-transforms data, which has the dc voltage component removed therefrom by said processing unit, ~~so as to analyze the data~~; and

a bias voltage application circuit as a stage preceding said A/D converter, wherein said processing unit adopts a measurement of a voltage at a dc voltage source, which is employed by said bias voltage application circuit, as the removal voltage value.

3. (Original) The radar according to claim 2, wherein said voltage measurement is obtained by measuring the voltage at said dc voltage source with no signal received by said bias voltage application circuit.

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4. (Original) The radar according to claim 3, further comprising a switch that discontinues conduction of a signal so as to establish a state in which no signal is received by said bias voltage application circuit.

5. (Currently Amended) A radar comprising:  
a mixer that mixes a transmitted signal and a received signal;  
an A/D converter that analog-to-digital converts an output signal of said mixer to an output data; and  
a processing unit that removes a dc voltage component by subtracting a predetermined voltage value from output data of said A/D converter, and Fourier-transforms data, which has the dc voltage component removed therefrom by said processing unit, ~~so as to analyze the data~~, wherein said processing unit calculates the removal voltage value on the basis of the output data of said A/D converter.

6. (Previously Presented) The radar according to claim 5, wherein said processing unit calculates the removal voltage value as an average of output data items of said A/D converter.

7. (Previously Presented) The radar according to claim 6, wherein said processing unit applies a window function to the data that have the average subtracted therefrom, calculates a second average by averaging the data that have the window

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function applied thereto, and subtracts the second average from the data that have the window function applied thereto.

8. (Currently Amended) A radar comprising:

a mixer that mixes a transmitted signal and a received signal;

an A/D converter that analog-to-digital converts an output signal of said mixer to an output data; and

a processing unit that removes a dc voltage component by subtracting a predetermined voltage value from output data of said A/D converter, and Fourier-transforms data, which has the dc voltage component removed therefrom by said processing unit, ~~so as to analyze the data~~, wherein digital filtering is performed on the data treated by said processing unit in order to further remove a low-frequency component.

9. (Original) The radar according to claim 8, wherein digital filtering is performed on the data that has the window function applied thereto.